What is claimed is:

- An isolated nucleic acid encoding a Progression Suppressed 1. Gene 13 (PSGen 13) protein
 - acid of isolated nuclelic claim 1, wherein 2. Progression Suppressed Gene 13 (PSGen 13) protein is a human protein, a rat protein, a primate protein, a mouse protein, or a bovine protein.
 - The isolated nucleic acid of claim 1, wherein the nucleic 3. acid comprises the polynucleotide sequence shown in SEQ ID NO:1.
 - The isolated nucleic acid ϕf claim 1, wherein the nucleic 4. acid comprises the polynucleotide sequence shown in SEQ ID NO:2.
 - The isolated nucleic acid of claim 1, wherein the nucleic 5. acid consists essentially of the polynucleotide sequence shown in SEQ ID NO:1.
- The isolated nucleic acid of dlaim 1, wherein the nucleic acid consists essentially of the polynucleotide sequence shown in SEQ ID NO:2.
 - The isolated nucleic acid of claim 1, wherein the nucleic 7. acid consists of the polynucleotide sequence shown in SEQ ID NO:1.
 - The isolated nucleic acid of claim 1, wherein the nucleic acid consists of the polynucleotide sequence shown in SEQ ID NO:2.

A vector comprising the nucleic acid of any one of claims

5

10

25

30

1 18.

- 10. A host cell comprising the vector of claim 9.
- 5 11. The host cell of claim 10, wherein the host cell is a tumor cell.
 - 12. The host cell of claim 11, wherein the tumor cell is a nasopharengeal tumor cell, a thyroid tumor cell, a central nervous system tumor cell a melanoma cell, an epithelial tumor cell, a non-epithelial tumor cell, a blood tumor cell, a leukemia cell, a lymphoma cell, a neuroblastoma cell, a cervical cancer cell, a breast cancer cell, a lung cancer cell, a prostate cancer cell, a colon cancer cell or a glioblastoma multiforme cell.
 - 13. A method for treating cancer in a subject which comprises contacting a cell of the subject with a nucleic acid encoding a Progression Suppressed Gene 13 Protein (PSGen 13) in a sufficient amount so as to cause the cell to express the PSGen 13 protein, thereby treating cancer in the subject.
 - 14. The method of claim 13, wherein the cell is a tumor cell.
 - 15. The method of claim 14, wherein the tumor cell is a nasopharengeal tumor cell, a thyroid tumor cell, a central nervous system tumor cell, a melanoma cell, an epithelial tumor cell, a non-epithelial tumor cell, a blood tumor cell, a leukemia cell, a lymphoma cell, melanoma cell, a neuroblastoma cell, a cervical cancer cell, a breast cancer cell, a lung cancer cell, a prostate cancer cell, a colon cancer cell or a glioblastoma multiforme cell.
- 35 16. The method of claim 13, wherein the subject is suffering from a form of cancer.

25

30

- 17. The method of claim 16, wherein the form of cancer is melanoma, neuroblastoma, astrocytoma, glioblastoma multiforme, cervical cancer, breast cancer, colon cancer, prostate cancer, osteoscarcoma, chrondosarcoma, a nasopharengeal tumor, a thyroid tumor, a central nervous system tumor, a melanoma, an epithelial tumor, a non-epithelial tumor, a blood tumor, a leukemia, a lymphoma.
- 18. The method of claim 13, wherein the contacting is by way of topical application, administration to the subject, injection, electroporation, liposome application, viral-mediated contact, contacting the cell with the nucleic acid, or coculturing the cell with the nucleic acid.
 - 19. The method of claim 18, wherein the contacting is carried out via injection, oral administration, topical administration, adenovirus infection, viral-mediated infection, liposome-mediated transfer, topical application to the cells of the subject, or microinjection.
 - 20. The method of claim 13, wherein the subject is a mammal.
 - 21. The method of claim 20, wherein the mammal is a human.
- 22. An isolated Progression Suppressed Gene 13 (PSGen 13) protein.
- 23. The protein of claim 22, wherein the protein is a human protein, a rat protein, a bovine protein, a mouse protein, or a primate protein.
 - 24. The protein of claim 22, wherein the protein has a polypeptide sequence which is encoded by the polynucleotide sequence of SEQ ID NO:1.

5

10

25

- 25. The protein of claim 22, wherein the protein has a polypeptide sequence which is encoded by the polynucleotide sequence of SEQ ID NO:2.
- 5 26. An antibody which binds specifically to the protein of any one of claims 22 to 25.

10

- 27. The antibody of claim 26, wherein the antibody is a polyclonal antibody or a monoclonal antibody.
- 28. The antibody of claim 26, wherein the antibody is a human antibody, a murine antibody, a primate antibody, a bovine antibody, a sheep antibody or a rat antibody.
- 29. The antibody of claim 26, wherein the antibody is a human monoclonal antibody, a humanized murine monoclonal antibody, a humanized primate monoclonal antibody, or a humanized rat monoclonal antibody.
- 30. A composition which comprises any one of the nucleic acids of claims 1 to 8 and a carrier.
 - 31. The composition of claim 30, wherein the composition is a pharmaceutical composition.
- 32. A composition which comprises any one of the proteins of claims 22 to 25 and a carrier.
- 33. The composition of claim 32, wherein the composition is a pharmaceutical composition:
 - 34. A composition which comprises the antibody of claim 26 and a carrier.
- 35 35. The composition of claim 34, wherein the composition is a pharmaceutical composition.

A method for inhibiting growth of a cancer cell which 36. comprises contacting the cancer cell with a pharmaceutical composition comprising a/nucleic acid encoding a PSGen 13 a PSGen 13 protein or a PSGen 13 activator compound in a sufficient amount so as to inhibit growth of the cancer cell.

5

- The method of claim 36, \wherein the PSGen 13 activator 37. transcription comprises factor which compound а 10 specifically activates expression of a PSGen 13 gene, an agent which prolongs PSGen\ 13 protein half-life in the cell, or a compound which stabilizes PSGen 13 mRNA in the cell so as to increase translation of PSGen 13 protein in the cell.
 - The method of claim 36, wherein the contacting is by way of 38. topical application, injection, electroporation, liposome application, or coculturing the dell with the nucleic acid.
 - The method of claim 36, wherein the cancer cell is a 39. nasopharengeal tumor cell, a thyroid tumor cell, a central nervous system tumor cell, a melanoma cell, an epithelial tumor cell, a non-epithelial tumo $m{\dot{r}}$ cell, a blood tumor cell, a leukemia cell, a lymphoma ce $oldsymbol{1}$ l, a melanoma cell, a neuroblastoma cell, a cervical cancer cell, a breast cancer cell, a lung cancer cell, a prostate cancer cell, a colon cancer cell or a glioblastoma multiforme cell.
 - A method for inhibiting angiogenesis associated with tumor 30 growth in a subject which comprises administering to the subject a pharmaceutical composition comprising a nucleic acid encoding a PSGen 13 protein, a PSGen 13 protein or a PSGen 13 activator compound in sufficient amount so as to inhibit angiogenesis associated with tumor growth in the 35 subject.

5

10

- 41. The method of claim $40\sqrt{}$ wherein the subject is a mammal.
- 42. The method of claim 41, wherein the mammal is a human.

from melanoma, neuroblastoma, astrocytoma, glioblastoma multiforme, cervical cancer, breast cancer, colon cancer, prostate cancer, osteoscarcoma, chrondosarcoma, a nasopharengeal tumor, a thyroid tumor, a central nervous system tumor, a melanoma, an epithelial tumor, a non-epithelial tumor, a blood tumor, a leukemia, or a lymphoma.

AN